

## WEST Search History

DATE: Friday, October 13, 2006

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		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L3	L2 and isoprenoid.clm.	2
<input type="checkbox"/>	L2	tobacco.clm. and hyoscyamus.clm.	6
<input type="checkbox"/>	L1	tobacco and hyoscyamus	444

END OF SEARCH HISTORY

\* \* \* \* \* STN Columbus \* \* \* \* \*

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=> file agricola biosis embase caplus

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=> s hyoscyamus and tobacco and isoprenoid(w)synthase and plant

L1 1 HYOSCYAMUS AND TOBACCO AND ISOPRENOID(W) SYNTHASE AND PLANT

=> d l1 ibib ab

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:696645 CAPLUS

DOCUMENT NUMBER: 127:343337

TITLE: Isoprenoid synthase fusion  
proteins and their use in the preparation of novel  
isoprenoids

INVENTOR(S): Chappell, Joseph; Back, Kyoungwhan

PATENT ASSIGNEE(S): University of Kentucky, USA

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9738703	A1	19971023	WO 1997-US5986	19970411
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 5824774	A	19981020	US 1996-631341	19960412
CA 2250712	AA	19971023	CA 1997-2250712	19970411
ZA 9703108	A	19971104	ZA 1997-3108	19970411
AU 9727264	A1	19971107	AU 1997-27264	19970411
EP 904095	A1	19990331	EP 1997-921142	19970411
EP 904095	B1	20020904		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI			
BR 9708650	A	19990803	BR 1997-8650	19970411
AP 808	A	20000229	AP 1997-971	19970411
W:	BW, GM, GH, KE, LS, MW, SD, SZ, UG, ZM, ZW			

JP 2000508899 T2 20000718 JP 1997-537218 19970411  
 IN 186316 A 20010804 IN 1997-DE947 19970411  
 EP 1229122 A2 20020807 EP 2002-9895 19970411  
 EP 1229122 A3 20021009

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,  
 SI, FI

AT 223225 E 20020915 AT 1997-921142 19970411  
 TW 509724 B 20021111 TW 1997-86104693 19970411  
 PT 904095 T 20021231 PT 1997-921142 19970411  
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 CZ 294613 B6 20050216 CZ 1998-3179 19970411  
 US 6072045 A 20000606 US 1998-134699 19980814  
 KR 2000005385 A 20000125 KR 1998-708111 19981012  
 HK 1017275 A1 20030207 HK 1999-102647 19990622  
 US 2004078840 A1 20040422 US 2003-717500 20031121

PRIORITY APPLN. INFO.:

US 1996-631341 A 19960412  
 EP 1997-921142 A3 19970411  
 WO 1997-US5986 W 19970411  
 US 1998-134699 A3 19980814  
 US 2000-514513 A1 20000228  
 US 2000-576057 A1 20000523

AB Fusion proteins of enzymes of isoprenoid synthesis that include functional domains from different sources are described for use in the manufacture of novel isoprenoids that may be of agricultural, pharmaceutical, com., or industrial use. The enzymes may be mono-, di-, or sesquiterpene synthases or sterol synthases. Specifically, examples of fusion proteins of isoprenoid synthases of tobacco (5-epi-aristolochene synthase) and Hyoscyamus (vetispiradiene synthase) are described. A series of domain-exchange fusion proteins of these two enzymes were prepared by standard methods and manufactured by expression of the genes in Escherichia coli. This allowed the identification of the domains contributing the formation of specific end-products. The synthesis of novel isoprenoids was observed